

ARTIFICIAL INTELLIGENCE IN EDUCATION: CHALLENGES AND OPPORTUNITIES FOR SUSTAINABLE DEVELOPMENT

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Abstract

The article analyzes the role of artificial intelligence (AI) in the transformation of the educational sphere in the context of achieving the Sustainable Development Goals (SDGs). The purpose of the study is a comprehensive assessment of the potential benefits and risks of introducing AI into education in terms of their impact on sustainable development. Tasks include: identification of key AI application opportunities to improve the quality, accessibility, and inclusivity of education (SDG 4); analysis of issues related to ethics, algorithm bias, digital inequality, and the need for retraining; assessment of the impact of AI on the formation of competencies necessary for a sustainable future. The results show the significant potential of AI in personalizing learning, automating routine tasks, and providing access to knowledge, but also reveal serious risks of exacerbating social inequality (SDG 10) and ethical dilemmas. The scientific novelty lies in the systematic consideration of the relationship between the introduction of AI in education and the achievement of the SDGs, offering a balanced view of the challenges and opportunities. The practical significance lies in the formulation of recommendations for policy makers, educators, and developers on responsible and sustainability-oriented implementation of AI in educational systems.